```
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                       Ś
                                                                                                                                                                                                                                                                                                                                                     Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
                           Ś
                                                                                                                                밁
                                                                                                                                                          ঠ
                                                                                                                                                                                              밁
                                                                                                                                                                                                                        S
                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                    US-10-081-935-4 (1-194) x CIU39835 (1-1201)
                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
DEFINITION
    밁
                                                                 밁
                                                                                          ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sg
    392
                                                                                                                                272
                                                                                                                                                                                                                                                         152
                                                                                             13
                                                                                                                                                             41
                                                                                                                                                                                                                        21
                                  18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CIU39835
Coccidioides i
complete cds.
U39835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (01-NOV-1995) Kris O. Dugger, Infectious University of Arizona, 1501 N. Campbell, Tucson, A. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Coccidioides posadasii
Coccidioides posadasii
Coccidioides posadasii
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Burotiomycetes;
Onygenales; mitosporic Onygenales; Coccidioides.
1 (bases 1 to 1201)
1 (bases 1 to 1201)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 (báses 1 to 1201)
Dugger, K.O. and Galgiani, J.N.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cloning and sequence analysis of the cDNA for a Coccidioides immitis with immunogenic potential Biochem. Biophys. Res. Commun. 218 (2), 485-489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dugger,K.O., Villareal,K.M., Ngyuen,A., Zimmermann,C.R.,
and Galgiani,J.N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   U39835.1
                                                           cerrecerreadedecerecereredadececerareredadesecrecereredadarecere
                                                                           ProCysValGluGluAlaCysProLeuAspAlaArgIleSerValSerAsnIleValVal
                                                                                                                                           ThrArgLeuThrAspPheLysCysHisCysSerLysProGluLeuProGlyGlnIleThr 60
                                                                                                                                                                                                        MetGlnPheSerHisAlaLeuIleAlaLeuValAlaAlaGlyLeuAlaSerAlaGlnLeu 20
                  AspGlnCysSerLysAlaGlyValProIleAspIleProProValAspThrThrAlaAla 100
                                                                                                                                                                                                                                                    ATGCAGTTCTCACGCTCTCATCGCTCTCGTCGCTGCCGGCCTCGCCAGTGCCCAGCTC
                                                                                                                                                                                       CCAGACATCCCACCTTGCGCTCTCAACTGCTTCGTTGAGGCTCTCGGCAACGATGGCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /translation="MOFSHALIALVAAGLASAQLPDIPPCALNCFVEALGNDGCTRLT
DFKCHCSKPELPGQITPCVEEACPLDARISUSNIVUDQCSKAGVPIDIPDVDTTAAPB
PSETAEPTAEPTEEPTAPTAEPTAEPTEPTEPTAUPTGTGGGVPTGTGSFTVTGR
PTASTPAEFPGAGSNVRASVGGIAAALLGLAAYL"
369 c 275 g 308 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /codon_start=1
/product="immunoreactive spherule cell wall
/protein_ide="AAC49140.1"
/db_xref="GI:1161374"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Coccidioides posadasii"
/mol_type="mRNA"
/strain="Silveira"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GI:1161373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 note="33 kDa_apoglycoprotein"
                                                                                                                                                                                                                                                                                                                                                                1.57e-51
1023.00
100.00%
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 _xref="taxon:199306"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 immitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1201 bp mimmunoreactive
                                                                                                                                                                                                                                                                                                                                                               Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mRNA linear PLN 18-
e cell wall protein mRNA,
                                                                                                                                                                                                                                                                                                                                                1201
194
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ΑZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ) Diseases,
1Z 85724, U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PLN 18-JAN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Law, J.H.
451
                                                           391
                                                                                          80
                                                                                                                         331
                                                                                                                                                                                      271
                                                                                                                                                                                                                                                    211
```

```
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 2
CIU32518
LOCUS
                                                                                                                                                                                                                                                                                                                                                                    COMMENT
FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ঠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                 gene
                                                     polyA_site
                                                                                                                                                                                                                                     Sgo
                                                                                                                                                                                                                                                                                                                                                       source.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 181 GlyGlyIleAlaAlaAlaLeuLeuGlyLeuAlaAlaTyrLeu 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Fungi; Ascomycota; Pezizomycotina; En
Onygenales; mitosporic Onygenales; Coccidioides,
1 (bases 1 to 1234)
Zhu Y., Yang,C., Magee.D M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CIU32518
Coccidioides :
U32518
                                                                                                                                                                                                                                                                                                                                                                                                      Direct Submission
Submitted (27-JUL-1995) Texas Center for Infectious
Research Immunology, 2303'S.E. Military Drive, San F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              U32518.1 GI:1200179
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cox, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antigen 2 cDNA
Infect. Immun.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zhu, Y., Yang, C., Magee, D.M. and Cox, R.A. Molecular cloning and characterization o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ProThrAlaSerThrProAlaGluPheProGlyAlaGlySerAsnValArgAlaSerVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTACCGCTGAGCCCACCGCTGAGCCGACTCATGAGCCCACCGAGGAGCCCACTGCCGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ProGluProSerGluThralaGluProThralaGluProThrGluGluProThralaGlu 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ProThrGlyThrGlyGlyGlyValProThrGlyThrGlySerPheThrValThrGlyArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCCGCATTGCTGCTCTCCTCCTCGCTCCCTGCCTACCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCAACTGCCTCCACCCCAGCTGAGTTCCCAGGTGCTGGCTCCAACGTCCGTGCCAGCGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ProThrAlaGluProThrAlaGluProThrHisGluProThrGluGluProThrAlaVal 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (bases 1 to
               252
                                                                                                                                                                                                                                                                                                                                                                   24, 1996 this sequence version replaced gi:1184058.
Location/Qualifiers
                                                                    /protein_id="AABIN 148.1"
/protein_id="AABIN 148.1"
/db_xref="GI:1200180"
/tranalation="MOFSHALIVAAGLASAQLEDIPECALNCEVEALGNDGCTRLT
/FYENDERS | MOFSHALIVAAGLASAQLEDIPECALNCEVEALGNDGCTRLT
DFKCHCSKPELPGQITECVEEACPLDARISVSNIVVDQCSKAGVPIDIPEVDTTAAPE
PSETABPTABETEEPTAEPTAEPTAEPTEEPTEPTEVAVPTGTGGGVPTGTGSFTVTGR
PTASTPAEPPGAGSNVRASVGGIAAALLGLAAYL"
                                                                                                                                                                                                                                  /gene="Ag2"
175. .759
          /note="21 A nucleotides"
383 c 277 g 322
                                                                                                                                                                                      /gene="Ag2"
/note="major T-cell-reactive
spherule cell walls"
                                         gene="Ag2"
                                                                                                                                                            /codon_start=1
/product="antigen 2"
                                                                                                                                                                                                                                                                             /mol type="mRNA"
/strain="Silveira"
/db xref="taxon:199306"
/cell_type="spherule"
                                                                                                                                                                                                                                                                                                                                       organism≃"Coccidioides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1234
immitis antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (7),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2695-2699 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 ង្គ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Ag2) mRNA,
                                                                                                                                                                                                                                                                                                                                      posadasii"
                                                                                                                                                                                                    component
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of Coccidioides immi/tis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eurotiomycetes;
                                                                                                                                                                                                     mycelia
                                                                                                                                                                                                                                                                                                                                                                                                            Antonio,
                                                                                                                                                                                                                                                                                                                                                                                                                          Disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PLN
cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                              X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            571
```

Alignment Scores:

```
RESULT 3
CIU51200
LOCUS
DEFINITION
ACCESSION
VERSION
                                      REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                 KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                      ş
                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                ક
                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ঠ
         FEATURES
                                                                                                                                                                                                                                                                                                                                                                       ઇ
                                                                                                                                                                                                                                                                                                                                                                                            문
                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ક
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best I
Query
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ર્
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred.
Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -10-081-935-4 (1-194)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     No
     2 (bases 1 to 1435)
Zhu,Y., Yang,C., Magee,D.M. and Cox,R.,
Direct Submission
Submitted (12-MAR-1996) Rebecca A. Cox
Texas Center for Infectious Disease, 2:
Antonio, TX 7823, USA
Antonio, TX 70231
                                                                                                                                                                                                                                                                                                                655
                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                       715
                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                   161
                                                                                                                                                                                                                                                                                                                                                                             141
                                                                                                                                                                                                                                                                                                                                                                                                 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                             101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      175
                                                                                                                                                                                              Coccidioides
U51200
U51200.1 GI:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21
                                                                                        Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eu
onygenales; mitosporic Onygenales; Coccidioides.
1 (bases 1 to 1435)
Zhu,Y., Yang,C., Magee,D.M. and Cox,R.A.
Coccidioides immitis antigen 2: analysis of gene
Gene 181 (1-2), 121-125 (1996)
                                                                                                                                                              Coccidioides posadasii
                                                                                 8973319
                                                                                                                                                                                                                              CIU51200
                                                                                                                                                                                                                                                                   ProThrAlaSerThrProAlaGluPheProGlyAlaGlySerAsnValAxgAlaSerVal
                                                                                                                                                                                                                                                                                                                                                                 ProThrGlyThrGlyGlyGlyValProThrGlyThrGlySerPheThrValThrGlyArg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ProThrAlaGluProThrAlaGluProThrHisGluProThrGluGluProThrAlaVa1
                                                                                                                                                                                                                                                                                                                                                                                                                                     CCCGAGCCATCCGAGACCGCTGAGCCCACCGCTGAGCCAACCGAGGAGCCCCACTGCCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ProGluProSerGluThrAlaGluProThrAlaGluProThrGluGluProThrAlaGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACCAGTGCTCCAAGGCCGGTGTCCCAATTGACATCCCACCAGTTGACACCACCGCCGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrArgLeuThrAspPheLysCysHisCysSerLysProGluLeuProGlyGlnIleThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MetGlnPheSerHisAlaLeuIleAlaLeuValAlaAlaGlyLeuAlaSerAlaGlnLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AspGlnCysSerLysAlaGlyValProIleAspIleProProValAspThrThrAlaAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ProAspIleProProCysAlaLeuAsnCysPheValGluAlaLeuGlyAsnAspGlyCys
                                                                                                                                                                                               GI:1256443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.61e-51
1023.00
100.00%
100.00%
                                                                                                                                                                                                                   immitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CIU32518
                                                                                                                                                                                                                 1435
antigen
                                                                                                                                                                                                                                                                                                                                                      GGTGTCCCCACTGGCACCGGTTCCTTCACCGTCACTGGCAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (1-1234)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                 ည်
                                                                                                                                                                                                                 protein
                       A. Cox, Clinical Investigation,
ease, 2303 S.E. Millitary Dr., San
                                                        Cox, R.A.
                                                                                                                                                                                                                 gene,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1234
194
0
0
                                                                                                                                                                                                                            linear
                                                                                                           gene
                                                                                                                                                                                                                 complete
                                                                                                                                                                                                                                                                                        194
                                                                                                                                                                                                                                                                     756
                                                                                                                                                    Eurotiomycetes;
                                                                                                           and
                                                                                                                                                                                                                            PLN 14-JAN-1997
                                                                                                          protein
                                                                                                                                                                                                                   cds.
                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                   140
                                                                                                                                                                                                                                                                                                                                                      654
                                                                                                                                                                                                                                                                                                                                                                          160
                                                                                                                                                                                                                                                                                                                                                                                              594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100
                                                                                                                                                                                                                                                                                                                                                                                                                                     534
                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 234
                                8
                                                 δ
                                                                          멼
                                                                                         S
                                                                                                              문
                                                                                                                                  S
                                                                                                                                                             밁
                                                                                                                                                                           Ş
                                                                                                                                                                                                     밁
                                                                                                                                                                                                                       Ś
                                                                                                                                                                                                                                                            Ş
                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                        Ś
                                                                                                                                                                                                                                                                                                                                              Ś
                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                             밁
                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                            Ś
                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-081-935-4 (1-194) x CIU51200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alignment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SdC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
              161
                                                     141
                                                                                                                                                             595
                                                                          715
                                                                                              121
                                                                                                                   655
                                                                                                                                       101
                                                                                                                                                                                                     535
                                                                                                                                                                                                                                                                                       415
                                                                                                                                                                                                                                                                                                                                                                                                                                                      475
                                                                                                                                                                                                                                                                                                                               355
                                                                                                                                                                                                                                                                                                                                                                       295
                                                                                                                                                                                                                                                                                                                                                                                                                 235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scores:
                                                                                                                                                                                81
                                                                                                                                                                                                                                                                                                         55
                                                                                                                                                                                                                                                                                                                                                  35
                                                                                                                                                                                                                          74
                                                                                                                                                                                                                                                                  73
                                                                                                                                                                                                                                                                                                                                                                                            28
                                                                                                                                                                                                                                                                                                                                                                                                                                   21
ProThrGlyThrGlyGlyGlyValProThrGlyThrGlySerPheThrValThrGlyArg
                                                                                                                                                                                                   AAAGAAGTCGAAATGGCAGCTAACATGTTAAAAAATCCAGCCGTCTCCAACATCGTCGTT
                                                                       CCTACCGCTGAGCCCACCGCTGAGCCGACTCATGAGCCCACCGAGGAGCCCACTGCCGTC
                                                                                     ProThrAlaGluProThrAlaGluProThrHisGluProThrGluGluProThrAlaVal
                                                                                                                 CCCGAGCCATCCGAGACCGCTGAGCCCACCGCTGAGCCAACCGAGGAGCCCACTGCCGAG
                                                                                                                             ProGluProSerGluThrAlaGluProThrAlaGluProThrGluGluProThrAlaGlu
                                                                                                                                                         GACCAGTGCTCCAAGGCCGGTGTCCCAATTGACATCCCACCAGTTGACACCACCGCCGCT
                                                                                                                                                                     AspGlnCysSerLysAlaGlyValProIleAspIleProProValAspThrThrAlaAla
                                                                                                                                                                                                                                                                                   CTCCCAGGACAGATCACTCCTTGCGTTGAGGAGGCCTGCCCTCTCGACGCCCGTATCTGT
                                                                                                                                                                                                                                                                                               LeuProGlyGlnIleThrProCysValGluGluAlaCysProLeuAspAlaArgIle---
                                                                                                                                                                                                                                                                                                                                         LeuGlyAsnAspGlyCysThrArgLeuThrAspPheLysCysHisCysSerLysProGlu
                                                                                                                                                                                                                                                                                                                                                                                                             CCAGACATCCCACCTTGCGCTGTATGTTCGAACCTTTTGTGTGGAACCTCACGGAGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                         ProAspIleProProCysAla------
                                                                                                                                                                                                                                           AAGTGAAGCGACACCAAATTCTTGCATCTCGCCCAAGGATGGGATAAGATGAGAAGATGG
                                                                                                                                                                                                                                                                                                                             CTCGGCAACGATGGCTGCACTCGCTTGACCGACTTCAAGTGCCACTGCTCCAAGCCTGAG
                                                                                                                                                                                                                                                                                                                                                                      ACGAGAAGGACTCTTGGAATGCTAACGGCTTGATGCTAGCTCAACTGCTTCGTTGAGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Coccidioides po
/mol_type="genomic DNA"
/strain="Silveira"
/db_xref="taxon:199306"
join(175. .255,334 .472,5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.3e-48
970.00
76.38%
75.98%
94.82%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (1-1435)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    posadasii"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .939)
                                                                                                                                                                                                                                                                                                                                                                                  -LeuAsnCysPheValGluAla
                                                                                                                                                                                                                       SerValSerAsnIleValVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1435
193
1
0
60
2
```

234 20

27

180 834 160 100

80 534 73 474 .73 414 54 354 34 294

714 120 654